

### REMARKS

As noted above, the listing of claims which begins on page 2 of this paper replaces the listing of claims filed with the Amendment of January 30, 2008.

Claims 1, 12 and 51 have been amended. No new matter has been introduced. Claims 1-3, 6-9, 11, 12, 14, 16-20, 34, 36, 38-42, 46, and 51 are pending. Claims 1-3, 6-9, 11, 12, 14, 16-20, 34, 36, 38-42, 46, and 51 stand rejected. Applicant reserves the right to pursue the original claims and other claims in this application and in other applications.

Applicant acknowledges the communication from the Office mailed April 23, 2008.

Claim 51 stands rejected under 35 U.S.C. 112 ¶1 as failing to comply with the enablement requirement. The rejection is respectfully traversed and reconsideration is respectfully requested. Applicant submits that claim 51 has been amended to overcome the rejection. Accordingly, Applicant respectfully requests that the rejection be withdrawn.

For the Examiner's convenience, the remarks below are repeated from the Amendment filed January 30, 2008:

Claims 1-3, 6-9, 11, 12, 14, 16-20 and 34, 36, 38-42, 46, and 51 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Amagai (U.S. Patent No. 6,232,661) in combination with Forray (U.S. Pub. No. 2002/0062923). The rejection is respectfully traversed and reconsideration is respectfully requested.

As stated in the Office Action, "nothing in the claim language precludes an adhesive from extending past edges of the die and being localized under the die." (Office Action at 6). Claims 1 and 12 have been amended to add this limitation.

The claimed inventions relate to a prepackaged semiconductor device assembly. As such, independent claim 1 recites a prepackaged semiconductor device assembly comprising "a solder mask over a substrate a die conductive paths connecting contacts on said die with contacts in

said substrate; and an adhesive layer which is only partially cured for adhering said die to said solder mask, and being localized under the die such that no part of the adhesive layer extends past an edge of the die such that no part of the adhesive layer extends past an edge of the die.”

Independent claim 12 recites a prepackaged semiconductor device assembly comprising “a solder mask on a substrate; a die; electrical contacts on said substrate and said die, each contact on said die being connected to a respective contact on said substrate, said electrical contacts being devoid of contamination caused by outgassing from said solder mask; and an adhesive layer which is only partially cross-linked affixing said die to said solder mask, and being localized under the die.”

The references, alone or in combination, fail to disclose, teach, or suggest a prepackaged semiconductor device assembly comprising “a solder mask over a substrate a die conductive paths connecting contacts on said die with contacts in said substrate; and an adhesive layer which is only partially cured for adhering said die to said solder mask, and [is] localized under the die such that no part of the adhesive layer extends past an edge of the die,” as recited by claim 1. Amagai’s die attaching tape (8) extends beyond the surface of the die (2), as illustrated in Amagai’s FIG. 3 (reproduced below).

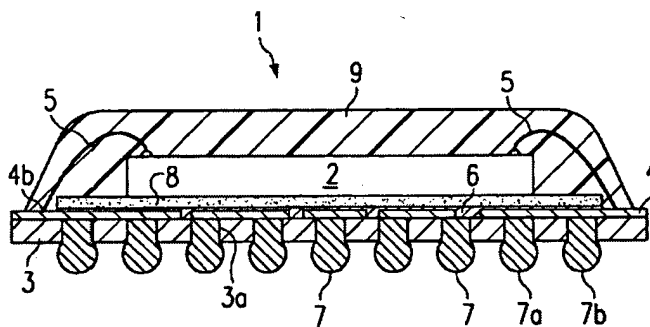


FIG. 3

Amagai specifically teaches that the attaching tape (8) extends beyond the outer edge of the chip in order to cover the connecting lands 4(a). See Amagai at 6:58-7:3. Amagai teaches away from a prepackaged semiconductor device assembly having “an adhesive layer which is only

partially cured for adhering said die to said solder mask, and [is] localized under the die such that no part of the adhesive layer extends past an edge of the die,” as recited by claim 1. *See Amagai* at 2:30-41. Further, as the Office Action admits (at page 3), Amagai fails “to disclose a partially-cured adhesive layer.”

Forray does not cure the deficiencies of Amagai; Forray also fails to disclose, teach, or suggest a “an adhesive layer which is only partially cross-linked affixing said die to said solder mask, and being localized under the die such that no part of the adhesive layer extends past an edge of the die,” as recited by claim 1.

For at least this reason, Applicant respectfully submits that claim 1 is allowable over the references of record. Claims 2, 3, 6-9, 11, 34, 38, 39, 41, and 42 depend from claim 1, and are allowable for at least the same reasons set forth above with respect to claim 1 and on their own merits. Accordingly, Applicant respectfully requests that the rejection be withdrawn and the claims allowed.

Claim 12 recites “an adhesive layer which is only partially cross-linked affixing said die to said solder mask, and being localized under the die such that no part of the adhesive layer extends past an edge of the die,” and is patentable for at least the same reasons above with respect to claim 1 and on its own merit. Claims 14, 16-20, 36, 40, 46, and 51 depend from claim 12, and are allowable for at least the same reasons and on their own merits. Accordingly, Applicant respectfully requests that the rejection be withdrawn and the claims allowed.

In view of the above, Applicant believes the pending application is in condition for allowance. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. M4065.0226/P226.

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Respectfully submitted,

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